

REMARKS

In an Office Action dated 14 April 2006, the Examiner rejects claims 31-53 (All pending claims). In response to the Office Action, Applicants amend the specification and claims 31 and 37; cancel claims 35-36, 39, and 53; and respectfully traverse the rejection. Claims 31-34- 37-38 and 40-52 remain in the Application. In light of the above amendments and following arguments, Applicants respectfully request that this application be allowed.

Applicants have amended the specification to capitalize all trademarked brands of the chemical compounds in the present invention. Applicants therefore believe no further correction is required. Therefore, Applicants respectfully request that the Examiner remove all objections and/or objections to the claims. Applicants have also removed all trademarked brands from the claims. Thus, Applicants respectfully request that all rejections and objections to the claims regarding trademarked material be removed.

Applicants amend claim 31 to recite 28%-50% by weight of water as is described in page three of the specification. Thus, Applicants respectfully request that the 35 U.S.C. §112 rejections of this application be removed.

Applicants have also amended claim 31 to more precisely define the subject matter that the Applicants regard as the invention. Specifically, Applicants have amended claim 31 to recite a coupling agent selected from Diels-Alder adducts of unsaturated fatty acids and a neutralizer that reacts with the acids to form water soluble salts. This allows the emulsion to withstand the high temperatures and pressures in an internal combustion engine. No new matter is added by this amendment as this is described in the paragraph beginning at page 9, line 7 of the specification.

In the Office Action, the Examiner rejects claim 31 under 35 U.S.C. §103(a) as being obvious from U.S. Patent Number 5,284,492 issued to Dubin (Dubin) in view of U.S. Patent Number 3,756,794 issued to Ford (Ford), WO published application 95/27021 on behalf of Gunnerman (Gunnerman) and U.S. Patent Number 5,669,938 issued to Schwab (Schwab). In order to maintain a rejection the Examiner has the burden of providing evidence of *prima facie* obviousness. See MPEP §2143. See also In Re Vaeck, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991). In order to prove *prima facie* obviousness, the Examiner must provide evidence in the prior art of a motivation to combine or modify a reference, a reasonable expectation of success, and a teaching of each and every claimed element. *Id.* The Examiner has failed to provide references that teach each and every claimed element of amended claim 31 or a proper motivation to combine the references.

Amended claim 31 recites an emulsion having additives including a neutralizer being substantially .05%-.4% by weight of said fuel emulsion wherein said neutralizer reduces corrosion caused by acids in said fuel emulsion, and a coupling agent substantially .04%-.1% by weight of said fuel emulsion wherein said coupling agent maintains phase stability of said fuel emulsion at high temperatures and shear pressures of an internal combustion engine wherein said coupling agent is one selected from a group consisting of: a di-acid of the Diels-Alder adducts of unsaturated fatty acids and a tri-acid of the Diels-Alder adducts of unsaturated fatty acids and wherein said neutralizer combines with a select acid to form a water soluble salt. None of the cited references teach these limitations. Although Dubin teaches the use of di- and tri- acids as created for use as lubricity enhancers, the di- and tri- acids are oil soluble. See Col. 7, lines 15-65. Thus, these di- and tri acids taught in Dubin are not useful at the high temperatures and sheer pressures in an internal combustion engine.

As is clear from the abstract of Dubin, the disclosed fuel is for a turbine engine. Thus, the Dubin fuel does not need to withstand the same pressures or temperatures as the emulsion as recited in amended claim 31. All of the other reference do not disclose the use of di- or tri-acids as recited in amended claim 31 and are merely added to include various other additives into the emulsion. Thus, the neutralizer and coupling agent recited in amended claim 31 are not taught by the reference provided by the Examiner. Therefore, Applicants respectfully request that the rejection of claim 31 be removed and amended claim 31 be allowed.

The Examiner has also not provided evidence of a proper motivation to combine the references. The Examiner merely asserts that one would combine the references to improve the anti-freeze and ignition properties of a fuel emulsion. The Examiner has not provided evidence that there is a need in Dubin for such properties. The Examiner is reminded that just because something is within the capabilities of one of ordinary skill in the art does not by itself establish obviousness. *See Ex parte Levengood*, 28 USQ2d 1300 (Bd. Pat. App. & Inter. 1993). If the Examiner is maintaining that such problems are common in the art Applicants respectfully request the Examiner provide evidence as such and allow Applicants to respond.

The mere fact that references can be combined or modified does not render the resultant combination obvious unless the prior art suggests the desirability of the combination. See *In re Mills* 916 F2d 680 (Fed. Cir. 1990). The Examiner has not provided any indication in the prior art of the desirability to combine the references. Instead, the Examiner has merely endeavored in impermissible hindsight engineering to provide separate pieces of art that each teach a limitation of amended claim 31. One looking at the reference would not be motivated in combination any of the references

with one another as the fuels all have different uses. Thus, Applicants see no evidence for a motivation to combine the four references.

For the above reasons, Applicants respectfully request that the rejections of claim 31 be removed and amended claim 31 be allowed.

Claims 32-34, 37-38, and 40-52 are dependent from claim 31. Thus, claims 32-34, 37-38, and 40-52 are allowable for at least the same reasons as amended claim 31. Therefore, Applicants respectfully request that the rejections of claims 32-34, 37-38, and 40-52 be removed and claims 32-34, 37-38, and 40-52 be allowed.

If the Examiner has any questions regarding this application, the Examiner may telephone the undersigned at 775-586-9500.

Respectfully submitted,
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